PROJECT DESCRIPTION													F I	H W A STATE FED. AID SHEET TOTAL NO. SHEETS	
General	A			QUIPMENT LIS		D	ont do bo 1		T LIST (CON					3 MD	
			SI	PECIFICATION					SPECIFICATI		5 5 1		EQUIPMENT LIST	·	
This project involves the installation of a new traffic control signal with street lighting and traffic signal interconnect at the intersection of MD 192 at Plyers Mill	ITEM NO.	QUANTITY		SECTION	DESCRIPTION	ITEM NO. 1001	QUANTITY	UNIT EA	SECTION 104	DESCRIPTION  Maintenance of traffic	B. Equipme	ent to be turni	SPECIFICATI	stalled by the Contractor.	
Road/Concord Street in Montgomery County, Maryland. MD 192 is assumed to run in an east—west direction.	9006	4	EA	817	Pedestrian push button and sign		, ,				ITEM NO. (	QUANTITY UN		DESCRIPTION	
	9007	1	EA	814	12 in. one-way, two-	2001	Ο	CY	205	Test pit excavation	8028	75 LF	805	3" electrical conduit - P.V.C.	
Intersection Operation					section, symbolic ("WALK/DON'T WALK")	5003	470	LF	555	12" white permanent preformed pavement marking				schedule 80 - encased (slotted in roadway)	
This intersection shall operate in a semi-actuated mode with the Eastbound/Westbound MD 192 approaches running concurrently. The Concord Street and Westbound Plyers Mill Road approaches shall operate in an exclusive					signal head - pole mount	5004	85	LF	555	tape 24" white permanent	8031	170 LF	805	4" electrical conduit - P.V.C. schedule 80 - encased (slotted in roadway)	
phase, operation. Pedestrian indications and actuation shall be installed for the south and east legs of this intersection.	9008	5	ΕA	814	12 in. two -way, two-					preformed pavement marking tape	8033	10 EA	811	Handhol e	
					section symbolic ("WALK/DON'T WALK")	5005	13	EA	555	Permanent preformed	8034	6 EA	804	Ground rod (3/4 in. x 10 ft.)	
An eight phase, fully actuated controller with six (6) two-channel loop detector amplifiers with delay output in a pole mounted cabinet is to be installed at this location. The signal is to be interconnected with the signal at MD 185					signal head - pedestal mount	5006	4	EΑ	555	pavement marking letter  Permanent preformed	8038	820 LF	810	12-pair communication cable, self-supporting (overhead)	
(Connecticut Avenue) and MD 192 (Plyers Mill Road).	9009	٦	EA	XXX	Four channel rack	F 0.4.7	7.40	1.5		pavement marking arrow	8040	1810 LF	810	Loop wire - No. 14 AWG -	
. Special Notes	3003	J	L., 1 \	777	mounted loop detector amplifier	5013	340	LF	555	Remove existing pavement marking - any width	8041	790 LF	810	THWN  Electrical Cable - 2-	
1. The contractor shall confirm the location of all utilities prior to						5014	15	EA	555	Remove existing pavement marking letter or arrow				conductor, No. 14 AWG - (Aluminum Shielded)	
construction.	9010	184	SF	813	Sheet aluminum signs consisting of:	6001	16	SF	610	4 in. concrete sidewalk	8042	390 LF	810	Electrical cable - 2- conductor, No. 14 AWG -	
2. Maintenance of traffic will be handled by the contractor utilizing the		4	ΕA		R10-3C (9 in. x 12			•						IMSA 19-1	
following standard plates for traffic control: 104.00-104.00-30, 104.39-02, 104.40-02,104.41-02,104.48-02.		,			in.) - pole mount	6002	80	L.F	609	Standard type A combination curb and gutter 12-inch gutter pan, 8-inch depth	8043	740 LF	810	Electrical cable - 3-conductor No. 14 AWG -IMSA 19-1	
3. The following contact persons for District 3 are as follows:		1	EA		R3-5(R) (36 in. x 30 in.) - mast arm mount	8001	11	CY	801	Concrete for signal	8044	80 LF	810	Electrical cable – 5-conductor No. 14 AWG – IMSA 19-1	
Mr. Paul Armstrong Mr. Maj Shakib District Engineer Asst. District Eng.—traffic		7	EA		R3-5(L) (36 in. x 30 in.) - mast arm mount	8003	4	EA	818	foundation Breakaway pedestal pole – any size	8045	700 LF	810	Electrical cable - 7-conductor No. 14 AWG - IMSA 19-1	
Phone # (301) 513-7311 Phone # (301) 513-7359  Mr. Carter Wilson Mr. Francis Lauer		2	EA		D3-2 (32 in. x Var)	8006	3	EA	SP	Cut, clean, and cap traffic signal structure	8049	250 LF	810	Electrical cable No. 6 AWG stranded bare copper ground wire	
Asst. District Engineer Asst. District Eng utilities Phone # (301) 513-7305 Phone # (301) 513-7351		2	EΑ		mast arm mount D3-2 (16 in. x Var)	8011	8	EΑ	814	Install signal head (any type)	8050	310 LF	810	Electrical cable - 1- conductor No. 4 AWG	
Mr. Richard L. Daff Sr.		3	EA		mast arm mount W3-3 (36 in. x 36	8016	5	EA	XXX	Install microloop probe set with 500ft. lead-in				- THHN/THWN	
Chief, Traffic Operations Division		9	Same (*)		in.) - ground mount	8018	4	EΑ	817	Install pushbutton with sign	8051	100 LF	812	Wood sign supports 4" x 4"	
Phone # (410) 787-7630		5	EA		Guide shield assembly (30 in, x 51 in,) —	8019	1	EΑ	816	Install controller and cabinet pole mount	8053	94 SF	813	Install ground mounted sign	
4. The contractor shall be respnsible for routing interconnect cables into the base of each cabinet and properly tag the cables.					pole mount.	8021	700	LF	815	Sawcut for signal (loop detector)	8054	90 SF	813	Install overhead mounted sign	
MCDOT forces shall be responsible for disconnecting and splicing interconnect cables.		1	EA		R10-11b (24 in. x 24 in.) pedestal mount	0000	4.0		0.05		8055	4 EA	821	Install breakaway base support system for	
EQUIPMENT LIST		1	EA		W11-2g (36 in. x 36 in.)	8022	40	LF	805	1" electrical conduit galvanized — sleeve	8063	1 EA	SP	signal structure  Use existing plan or disk	
A. Equipment to be supplied by the SHA and installed by the contractor					ground mount	8023	40	LF	805	1" liquid tight flexible non		La / (	0.	and as-built traffic control device	
SPECIFICATION  [TEM NO. QUANTITY UNIT SECTION DESCRIPTION		1	EΑ		M6-2 (15 in. x 21 in.) ground mount					metallic conduit - sleeve	8068	20 LF	805	2 in. electrical conduit P.V.C. schedule 80 riser.	
8001 1 EA 816 Eight-Phase (fully actuated)		1	EA		R3-6 (30 in. x 36 in.) modified arm mount	8024	210	LF	805	2" electrical conduit — P.V.C. schedule 80 — buried (trenched)	8070	1 EA	SP	Control and distribution equipment (120/240 Volt 1 Phase 3 wire system)	
controller and cabinet with  LAU module and harness —  pole mount						8027	100	LF	805	schedule 80 - buried (trenched) 3" electrical conduit - P.V.C.	8082	1 EA	SP	Mast arm pole and 50 ft. mast arm	
											8084	1 EA	SP	Mast arm pole and 70 ft. mast arm	
8002 3 EA 814 12 in. one-way, three section (R,Y,G) signal head-mast arm mount											NEG.	5 CY 80 LF	206 206	Removal of existing sidewalk  Removal of existing curb and	
3003 1 EA 814 12 in. one—way, five section											1 <b>∀</b> L. U •	OO LF	200	gutter combination	
(R.Y. YA. G. GA) optically programmed signal head-mast arm mount							·		REVISIONS  APPROVALS  MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  Office of Traffic & Safety  ASST. DIVISION CHIEF, TEDD  ASST. DIVISION CHIEF, TEDD  ASST. DIVISION CHIEF, TEDD						
8004 3 EA 814 12 in. one-way, three section (R,Y,G) optically											TRAFF	IC ENGIN	EERING	DESIGN DIVISION	
programmed signal head- mast arm mount										ASST. DISTRICT ENGINEER, TRAFFIC		GENERAL I	D CONCORD STR NFORMATION SH		
1005 1 EA 814 12 in. one-way, four section						<b>Γ</b>	1.41.17.11.11.11.11.11.11.11.11.11.11.11.11			CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	DRAWN BY: R.C./	1	STPG-000S(	DATE 4/ /96  588)E PLAN	
(R,Y,G,GA) signal head-mast arm mount							CONSULTING ENG	INEERS			CHECK BY:	S.H.A. NO	8)4/ >3-	SHEET NO.: SHEET NO.	
			<del>,</del>			<u> </u>	COLUMBIA, MARY	(LAND)		DIRECTOR, OFFICE OF TRAFFIC & SAFETY	SUALE:	COUNTY	MONTON	MERY   15 35/1   3 OF 5	